

6HB6

Power Pentode

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (*Design-Maximum Values*):

Voltage (AC or DC) 6.3 ± 0.6 volts

Current at heater volts = 6.3 0.760 amp

Peak heater-cathode voltage:

Heater negative with respect to cathode 200 max. volts

Heater positive with respect to cathode 200^a max. volts

Direct Interelectrode Capacitances

(Approx.):^b

Grid No.1 to plate 0.18 μf

Grid No.1 to cathode, grid No.3, grid No.2, and heater 13.0 μf

Plate to cathode, grid No.3, grid No.2, and heater 8.0 μf

Characteristics, Class A₁ Amplifier:

Plate Supply Voltage 60 250 250 volts

Grid No.3 *Connected to cathode at socket*

Grid-No.2 Supply Voltage 250 125 250 volts

Grid-No.1 Voltage 0 - - volts

Cathode Resistor - 33 100 ohms

Mu-Factor, Grid No.2 to Grid No.1 - - 33

Plate Resistance (Approx.) - 28000 24000 ohms

Transconductance - 24000 20000 μmhos

Plate Current 150^c 40 40 ma

Grid-No.2 Current 37^c 4.2 6.2 ma

Grid-No.1 Voltage (Approx.) for plate $\mu\text{a} = 100$ - -6.4 -13 volts

Mechanical:

Operating Position Any

Type of Cathode Coated Unipotential

Maximum Overall Length 3-1/16"

Maximum Seated Length 2-13/16"

Length, Base Seat to Bulb Top (Excluding tip) . . 2-7/16" $\pm$ 3/32"

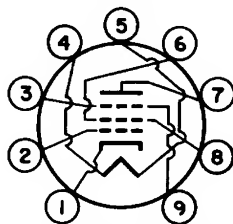
Diameter 0.750" to 0.850"

Dimensional Outline See *General Section*

Bulb T6-1/2

Basing Designation for BOTTOM VIEW 9PU

Pin 1-Cathode
Pin 2-Grid No.1
Pin 3-Grid No.3
Pin 4-Heater
Pin 5-Heater



Pin 6-Grid No.2
Pin 7-Plate
Pin 8-Grid No.2
Pin 9-Grid No.3



RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA
9-62

6HB6

VERTICAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system^d

DC PLATE VOLTAGE.	350 max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE ^a . . .	2500 max.	volts
GRID No.3 (SUPPRESSOR GRID) . . .	<i>Connect to cathode at socket</i>	
DC GRID-No.2 (SCREEN-GRID) VOLTAGE. . .	300 max.	volts
GRID No.1 (CONTROL-GRID) VOLTAGE. . . .	-100 max.	volts
GRID-No.2 INPUT	2 max.	watts
PLATE DISSIPATION	10 max.	watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For fixed-bias operation.	1 max.	megohm
For cathode-bias operation.	2.2 max.	megohms

^a The dc component must not exceed 100 volts.

^b Without external shield.

^c This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.

^d As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

^e This rating is applicable when the duration of the voltage pulse does not exceed 15 per cent of one vertical scanning cycle. In a 525-line, 30-frame system, 15 per cent of one vertical scanning cycle is 2.5 milliseconds.

